

Title (en)

Radar device and method of acquiring and tracking target

Title (de)

Radarvorrichtung und Verfahren zur Erfassung und Verfolgen eines Ziels

Title (fr)

Dispositif radar et procédé d'acquisition et de suivi de cible

Publication

EP 2808697 A1 20141203 (EN)

Application

EP 14170201 A 20140528

Priority

JP 2013115566 A 20130531

Abstract (en)

A radar device (1) is provided, which includes an extractor (41) configured to extract a representative point of a target from a radar echo, a representative point memory (42) configured to store the representative points extracted by the extractor (41), for a plurality of scans, an estimator (43) configured to estimate movement information on the target indicated by the representative points based on the information stored in the representative point memory (42), a determinator (44) configured to determine a possibility of a collision based on the movement information on the target estimated by the estimator (43), and an acquisition-and-tracking module (45) configured to acquire and track the target determined to have the possibility of a collision by the determinator (44).

IPC 8 full level

G01S 13/72 (2006.01); **G01S 13/937** (2020.01); **G01S 7/24** (2006.01)

CPC (source: EP US)

G01S 7/04 (2013.01 - US); **G01S 13/66** (2013.01 - US); **G01S 13/723** (2013.01 - EP US); **G01S 13/937** (2020.01 - EP US); **G01S 7/24** (2013.01 - EP US)

Citation (applicant)

- JP 2004309246 A 20041104 - FURUNO ELECTRIC CO
- JP 2534785 B2 19960918
- JP 2000304853 A 20001102 - MITSUBISHI ELECTRIC CORP

Citation (search report)

- [X1] US 2012316769 A1 20121213 - GAGLIARDI JOSEPH R [US], et al
- [X1] US 3717873 A 19730220 - RIGGS R
- [X1] US 4623966 A 19861118 - O'SULLIVAN JAMES P [GB]
- [XD1] JP 2004309246 A 20041104 - FURUNO ELECTRIC CO

Cited by

US2014354466A1

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

EP 2808697 A1 20141203; JP 2014235040 A 20141215; JP 6234710 B2 20171122; US 2014354466 A1 20141204

DOCDB simple family (application)

EP 14170201 A 20140528; JP 2013115566 A 20130531; US 201414292716 A 20140530